





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/540,288	09/540,288 03/31/2000		Xingwei Wu	36-00	9851
23713	7590	08/05/2003			
		ER AND SULLIV	EXAMINER		
5370 MANHATTAN CIRCLE SUITE 201				SANTIAGO, MARICELI	
BOULDER, CO 80303		03		ART UNIT	PAPER NUMBER
				2879	
				DATE MAIL ED. 09/05/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		\bowtie ℓ					
	Application N .	Applicant(s)					
	09/540,288	WU ET AL.					
Offic Action Summary	Examiner	Art Unit					
	Mariceli Santiago	2879					
The MAILING DATE of this communication appears on the cover sheet with the c rresp ndence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period with the period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on <u>05 M</u>	<u>lay 2003</u> .						
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims A) Claim(a) 242 278 and 602 605 in/ore panding i	in the englishting						
4) Claim(s) 243-378 and 603-605 is/are pending i	<u>``</u>						
5) Claim(s) is/are allowed.	in nom consideration.						
•							
6)⊠ Claim(s) <u>243,250,265,273-275,282,286,288-378 and 603-605</u> is/are rejected. 7)⊠ Claim(s) <u>244-249,251-264,266-272,276-281,283-285 and 287</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	•	•					
Application Papers	election requirement.						
9) The specification is objected to by the Examiner							
10)⊠ The drawing(s) filed on <u>31 March 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents	have been received.						
2. Certified copies of the priority documents	have been received in Application	on No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.		(PTO-413) Paper No(s) atent Application (PTO-152)					
S. Patent and Trademark Office							

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

DETAILED ACTION

Response to Amendment

The Amendment, filed on September 21, 2000, has been entered and acknowledged by the Examiner. Cancellation of claims 1-243 has been entered.

The Amendment, filed on August 5, 2002, has been entered and acknowledged by the Examiner.

The Amendment, filed on May 5, 2003, has been entered and acknowledged by the Examiner. Cancellation of claims 379-602 and 606-611 has been entered.

Election/Restrictions

Applicant's election without traverse of Group I, Claims 243-378 and 603-605 in Paper No. 12 is acknowledged.

Claim Objections

Claims 604 and 605 are objected to because of the following reasons. Appropriate correction is required.

Applicant is advised that should claim 603 be found allowable, claim 605 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim 604 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the

claim(s) in independent form. Claim 604 recites the same subject matter presented in the independent claim 288 from which claim 604 depend.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 265, 273-275, 282, 286, 288-378 and 603-605 are rejected under 35 U.S.C. 112. second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 288 and 604 recites the limitation "determined by the equation d₂= V/S", the term "S" of the equation in nowhere defined in the claim rendering it indefinite.

Claims 289-378 and 603-605 are dependent on claim 288, accordingly, the rejection of claim 288 stated above is further applied to claims 289-378 and 603-605.

Claims 265, 273-275, 282, 286, 310, 318-320, 327 and 331 recite the limitation "a threshold voltage adjustment layer", which is previously recited in the respective preceding claim, this limitation renders the claim indefinite, since where a claim directed to a device can be read to include the same element twice, it is considered indefinite. Ex parte Kristensen, 10 USPQ2d 1701 (Bd. Pat. App. & Inter. 1989).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 09/540,288

Art Unit: 2879

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 243 and 250 are rejected under 35 U.S.C. 102(b) as being anticipated by Tadokoro (JP 02-199793).

Regarding claim 243, Tadokoro discloses a patterned phosphor structure having red, green and blue sub-pixel phosphor elements for an AC EL display, comprising at least a first and a second phosphor (4A and 4B), each emitting light in different ranges of the visible spectrum, but whose combined emission spectra contains red, green and blue light, the at least first and second phosphors being in a layer, arranged in adjacent, repeating relationship to each other to provide a plurality of repeating at least first and second phosphor deposits, and one or more means associated with one or more of the at least first and second phosphor deposits, and which together with the at least first and second deposits, form the red, green and blue sub-pixels phosphor elements, and for setting the relative luminosities of the red, green and blue sub-pixels phosphor elements so that they bear set ratios to one another at each operating modulation voltage used to generate the desired luminosities for red, green and blue (see Abstract and Fig. 1).

Regarding claim 250, Tadokoro discloses a phosphor structure wherein the means for setting and equalizing the threshold voltages, and for setting the relative luminosities, comprises the at least first and second phosphor deposits being formed with different thickness (see Abstract and Fig. 1).

Allowable Subject Matter

Claims 265, 273-275, 282, 286, 288-378 and 603-605 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Application/Control Number: 09/540,288

Art Unit: 2879

Claims 244-249 and 251-287 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Mariceli Santiago whose telephone number is (703) 305-1083. The

examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh Patel, can be reached on (703) 305-4794. The fax phone number for the

organization where this application or proceeding is assigned is (703) 308-7382. Additionally,

the following fax phone numbers can be used during the prosecution of this application (703)

872-9318 (for response before a Final Action) and (703) 872-9319 (for response after a Final

Action).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Patent Examiner

Art Unit 2879

NIMESHKUMAR D. PATEL SUPERVISORY PATENT EXAMINER

Page 5

TECHNOLOGY CENTER 2800